ABSTRACT OF THE DISCLOSURE

[1076]   Techniques have been developed whereby lock state sharing can be extended to provide a low-space overhead lock management facility with comprehensive support for bulk lock delegation. Operating in conjunction with delegation request validation methods, the techniques provide an efficient bulk lock delegation facility for many advanced transaction models. Some implementations in accordance with the present invention provide bulk lock delegation with computational costs that are generally independent of the number of locks being delegated. Accordingly, such implementations may be particularly attractive for systems that demand for fine-granularity locking, large transaction sizes (in term of number of locks acquired), and efficient delegation mechanisms.